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MONTHLY LIST OF PUBLICATIONS

JANUARY-FEBRUARY, 1933

Any of the publications listed herein may be purchased from the Superintendent of Documents, Government Printing Office, Washington, D. C. As his office is not connected with the department and as the department does not sell publications, please send no remittance to the United States Department of Agriculture.

GENERAL PUBLICATIONS

FARMERS' BULLETINS

How to detect outbreaks of insects and save the grain crops. (F. B. 835F., rev.)
Price, 5¢.

Strawberry culture: South Atlantic and Gulf Coast regions. (F. B. 1026F., rev.)
Price, 5¢.

Determining the age of cattle by the teeth. (F. B. 1066F., rev.) Price, 5¢.

Beef-cattle production in the range area. (F. B. 1395F., rev.) Price, 5¢.

Dairy farming for beginners. (F. B. 1610F., rev.) Price, 5¢.

Preparing apples for market in barrels and baskets. (F. B. 1695F.) Price, 5¢.

Deciduous-fruit improvement through tree-performance records. (F. B. 1696F.)
Price, 5¢.

Using soil-binding plants to reclaim gullies in the South. (F. B. 1697F.) Price, 5¢.

Heating the farm home. (F. B. 1698F.) Price, 5¢.

LEAFLETS

Preparing wool for market. (Leaf. 92L.) Price, 5¢.

TECHNICAL BULLETINS

The portable band sawmill and selective logging in the loblolly pine forests of North Carolina. (T. B. 337T.) Price, 5¢.

Relation of leaf area and position to quality of fruit and to bud differentiation in apples. (T. B. 338T.) Price, 5¢.

Some results of inbreeding grade Guernsey and grade Holstein-Friesian cattle. (T. B. 339T.) Price, 15¢.

Effects of certain environmental factors on stripe disease of barley and the control of the disease by seed treatment. (T. B. 341T.) Price, 5¢.

Petrographic methods for soil laboratories. (T. B. 344T.) Price, 10¢.

Effect of lead arsenate insecticides on orange trees in Florida. (T. B. 350T.)
Price, 5¢.

CIRCULARS

Life history and control of the Asiatic garden beetle. (Cir. 246C.) Price, 5¢.

A box-type trap to aid in the control of eye gnats and blowflies. (Cir. 247C.)
Price, 5¢.

Mushroom growing in the United States. (Cir. 251C.) Price, 5¢.

Commercial cabbage culture. (Cir. 252C.) Price, 10¢.

Spoilage of stone fruits on the market. (Cir. 253C.) Price, 5¢.

Greenhouse heating. (Cir. 254C.) Price, 5¢.

Observations on the Mexican fruit fly and some related species in Cuernavaca, Mexico, in 1928 and 1929. (Cir. 255C.) Price, 5¢.

The Dorsett, Fairfax, and Narcissa Strawberries. (Cir. 257C.) Price, 5¢.

Farmer opinions and other factors influencing cotton production and acreage adjustments in the South. (Cir. 258C.) Price, 5¢.

The Potomac raspberry. (Cir. 259C.) Price, 5¢.

The farm real estate situation, 1931-32. (Cir. 261C.) Price, 5¢.

Downy mildew of tobacco. (Cir. 263C.) Price, 5¢.

MISCELLANEOUS CIRCULARS

Bibliography on the marketing of agricultural products. (M. C. 150MO.) Price, 20¢.

MISCELLANEOUS PUBLICATIONS

The agricultural outlook for 1933. (M. P. 156.) Price, 10¢.

SOIL SURVEYS

Maryland, Caroline County. (No. 7, Series 1929.) Price, 25¢.

Maryland, Talbot County. (No. 8, Series 1929.) Price, 35¢.

Massachusetts, Hampden and Hampshire Counties. (No. 25, Series 1928.) Price, 50¢.

New Mexico, The Fort Sumner Area. (No. 1, Series 1930.) Price, 15¢.

Ohio, Ottawa County. (No. 26, Series 1928.) Price, 40¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

United States standards for grades of canned corn—whole-grain style. (S. R. A.-B. A. E. 138.)¹

Information, instructions, rulings, etc., concerning the work of the Bureau of Animal Industry, December, 1932. (S. R. A.-B. A. I. 308.) Price, 5¢.

Notices of judgment under the food and drugs act. (N. J., F. D. 19451-19525); (N. J., F. D. 19526-19650); (N. J., F. D. 19651-19652); (N. J., F. D. 19653-19675.)¹

Modification of regulations of the fruit and vegetable quarantine of Puerto Rico. Quarantine No. 58. Effective January 1, 1933. (B. P. Q.-Q. 58.)¹

Quarantine and other official announcements. (S. R. A.-B. P. Q. No. 112.)¹

List of intercepted plant pests. (S. R. A.-P. Q. C. A.)¹

OTHER PUBLICATIONS

Family food budgets for the use of relief agencies. Price, 5¢.

Report of the Alaska agricultural experiment stations, 1931, 1932. Price, 5¢.

Report of the Puerto Rico agricultural experiment station, 1932. Price, 5¢.

¹ These may be obtained from the issuing bureau.

PERIODICALS

Periodicals may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 17, Nos. 1-2; January 1 to February 1, 1933.
Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.

Crops and markets. Vol. 9, No. 12, December, 1932; vol. 10, No. 1, January, 1933.
Price, 5¢ a copy; 60¢ a year, domestic; 85¢ a year, foreign.

Daily weather maps. Limited editions. Not for general distribution.

Price, daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States; 20¢ a month, \$2.40 a year.

Experiment station record. Vol. 68, Nos. 1-2; January to February, 1933.
Single number for sale only. Price, 10¢.

Extension service review. Vol. 4, No. 1, January, 1933. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.

Forest worker. Vol. 9, No. 1, January, 1933. Price, 5¢ a copy; 25¢ a year, domestic; 35¢ a year, foreign.

Journal of agricultural research, Vol. 46, No. 1. Illus. January 1, 1933. Price, 10¢.

CONTENTS:

Production and hatchability of eggs as affected by different kinds and quantities of proteins in the diet of laying hens. Key No. A-153.

The interrelations of two hymenopterous egg parasites of the gipsy moth, with notes on the larval instars of each. Key No. K-232.

Catalase activity and respiration in the leaves of growing barley. Key No. G-830.

A method for determining the quantity of mineral oil retained by leaf surfaces after spraying. Key No. E-49.

Differences in the amino acid content of the chief protein (glycinin) from seeds of several varieties of soybean. Key No. E-50.

Oil content of nine varieties of soybean and the characteristics of the extracted oils. Key No. E-51.

Relation of weather to the prevalence of wheat stem rust in Nebraska. Key No. Nebr.-16.

Inheritance of dwarfing in wheat. Key No. Utah-29.

Monthly weather review. Vol. 60, Nos. 9-11, September to November, 1932.
Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.
Not for general distribution.

Public roads. Vol. 13, Nos. 10-12, December, 1932, to February, 1933. Price, 10¢ a copy, \$1 a year, domestic; \$1.50 a year, foreign.

The official record. Vol. 12, Nos. 1-8, January 7 to February 25, 1933. Price, 5¢ a copy; 50¢ a year, domestic; \$1.10 a year, foreign.

Weekly weather and crop bulletin. Nos. 1-8, January 3 to February 21, 1933.
Price, 50¢ a year, domestic; \$1 a year, foreign.

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United States Department of Agriculture
MONTHLY LIST OF PUBLICATIONS

MARCH-APRIL, 1933

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GENERAL PUBLICATIONS

FARMERS' BULLETINS

- Testing farm seeds in the home and in the rural school (F.B. 428F., rev.). Price, 5¢.
- Potato storage and storage houses (F.B. 847F., rev.). Price, 5¢.
- Breeds of light horses (F.B. 952F., rev.). Price, 5¢.
- Strawberry culture: Western United States (F.B. 1027F., rev.). Price, 5¢.
- Diseases of sheep (F.B. 1155F., rev.). Price, 5¢.
- Seed potatoes and how to produce them (F.B. 1332F., rev.). Price, 5¢.
- Black walnut for timber and nuts (F.B. 1392F., rev.). Price, 5¢.
- Currants and gooseberries: Their culture and relation to white-pine blister rust (F.B. 1398F., rev.). Price, 5¢.
- Turkey raising (F.B. 1409F., rev.). Price, 5¢.
- Udder diseases of dairy cows (F.B. 1422F., rev.). Price, 5¢.
- Small concrete construction on the farm (F.B. 1480F., rev.). Price, 5¢.
- The chinch bug and how to fight it (F.B. 1498F., rev.). Price, 5¢.
- Farm poultry raising (F.B. 1524F., rev.). Price, 5¢.
- Clearing land of brush and stumps (F.B. 1526F., rev.). Price, 5¢.
- Farm budgeting (F.B. 1564F., rev.). Price, 5¢.
- Growing root crops for livestock (F.B. 1699F.). Price, 5¢.

LEAFLETS

- Protect hardwood stands from grazing (Leaf. 86L.). Price, 5¢.
- Controlling stomach worms in sheep and lambs (Leaf. 89L., rev.). Price, 5¢.
- Hints on mountain-lion trapping (Leaf. 94L.). Price, 5¢.

TECHNICAL BULLETINS

- Distinctive effects of the deficiency of certain essential elements on the growth of tobacco plants in solution cultures (T.B. 340T). Price, 5¢.
- Causes of brashness in wood (T.B. 342T). Price, 5¢.
- Specific gravity and related properties of softwood lumber (T.B. 343T). Price, 5¢.
- Biology and morphology of the spindle worm, or elder borer (T.B. 345T). Price, 5¢.
- The effect of concentration on the toxicity of chemicals to living organisms (T.B. 346T). Price, 5¢.
- An economic study of broomcorn production (T.B. 347T). Price, 5¢.
- Analysis of the advanced registry records of 611 daughters of 51 Ayrshire sires (T.B. 349T). Price, 5¢.

- Sudan grass as hay, silage, and pasture for dairy cattle (T.B. 352T). Price, 5¢.
 Farmers' response to price in hog production and marketing (T.B. 359T). Price, 5¢.

CIRCULARS

- Parasites and parasitic diseases of horses (Cir. 148C, rev.). Price, 5¢.
 American tobacco types, uses, and markets (Cir. 249C). Price, 15¢.
 Outlines of cotton culture in the San Joaquin Valley of California (Cir. 256C). Price, 5¢.
 Operation and management of milk plants (Cir. 260C). Price, 5¢.
 Mechanical application of fertilizers to cotton in South Carolina, 1931 (Cir. 264C). Price, 5¢.
 Conserving food value, flavor, and attractiveness in cooking vegetables (Cir. 265C). Price, 5¢.
 Golden Cross Bantam sweet corn (Cir. 268C). Price, 5¢.

MISCELLANEOUS PUBLICATIONS

- Workers in subjects pertaining to agriculture in State agricultural colleges and experiment stations, 1932-33 (M.P. 154MP). Price, 10¢.

STATISTICAL BULLETINS

- Cold-storage holdings, year ended December 31, 1931, with comparable data for earlier years (S.B. 39.). Price, 5¢.

SOIL SURVEYS

- Iowa, Calhoun County (No. 2, Series 1930). Price, 20¢.
 Maryland, Kent County (No. 3, Series 1930). Price, 35¢.
 Massachusetts, Franklin County (No. 9, Series 1929). Price, 35¢.
 New York, Suffolk and Nassau Counties (No. 28, Series 1928). Price, 70¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

- Order to prevent the introduction into the United States of rinderpest and foot-and-mouth disease.—Effective February 15, 1933 (amendment 1 to B.A.I. Order 334). Price, 5¢.
 Index to Service and Regulatory Announcements, January-December 1932. Bureau of Animal Industry. Price, 5¢.
 Information, instructions, rulings, etc., concerning the work of the Bureau of Animal Industry, January 1933. (S.R.A.-B.A.I. 309.)
 ——— February 1933. (S.R.A.-B.A.I. 310.)
 ——— March 1933. (S.R.A.-B.A.I. 311.)
 Price, 5¢ each.
 Notices of judgment under the Caustic Poison Act. (N.J., C.P. 8-11.)¹
 Notices of judgment under the Food and Drug Act (N.J., F.D. 19676-19850).¹
 Notices of judgment under the Insecticide Act (N.J., I.F. 1246-1260).
 Standards under the Tea Act (S.R.A., T. No. 7).¹
 Quarantine on account of the European corn borer and other dangerous insects and plant diseases with revised regulations. Effective March 1, 1933 (B.P.Q.-Q. 41).¹

¹ These may be obtained from the issuing bureau.

Japanese beetle quarantine. Revision of quarantine and regulations. Effective January 1, 1933 (B.P.Q.-Q. 48.)¹

Modification of pink bollworm quarantine regulations. Revision of regulation 3, effective February 28, 1933. (B.P.Q.-Q. 52).¹

Seed or paddy rice. Revision of quarantine and regulations. Effective July 1, 1933 (B.P.Q.-Q. 55).¹

Notice of lifting phony peach disease quarantine. Effective March 1, 1933 (B.P.Q.-Lifting Q. 67).¹

Packing materials quarantine. Notice of quarantine with regulations. Effective July 1, 1933 (B.P.Q.-Q. 69).¹

Service and Regulatory Announcements, October-December, 1932, Bureau of Plant Quarantine (S.R.A.-B.P.Q. No. 113).¹

OTHER PUBLICATIONS

Report of the Chief of the Weather Bureau, 1931-32. Price, \$1.25 (buckram).

The naval stores station (folder). Price, 5¢.

PERIODICALS

Periodicals may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 17, nos. 3-4; March 1 to April 1, 1933. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.

Crops and markets. Vol. 10, no. 2, February; no. 3, March 1933. Price, 5¢ a copy; 60¢ a year, domestic; 85¢ a year, foreign.

Daily weather maps. Limited editions. Not for general distribution.

Price, daily except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States; 20¢ a month, \$2.40 a year.

Experiment station record. General Index, vols. 51-60, 1924-29. Price, 60¢.

Vol. 68, nos. 3-4; March to April, 1933. Single number for sale only. Price, 10¢.

Extension service review. Vol. 4, no. 2, March 1933. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.

Forest worker. Vol. 9, no. 2, March 1933. Price, 5¢ a copy; 25¢ a year, domestic; 35¢ a year, foreign.

Journal of agricultural research. Price, \$2.25 a year, domestic; \$3.50 a year, foreign. Not distributed free to individuals. Each issue, price, 10¢.

—— Contents and Index, vol. 45, July 1-December 15, 1932. Price, 5¢.

—— Vol. 46, no. 2. Illus. January 15, 1933.

Contents:

Comparative serological and pathological investigations of the fire-blight organism and a pathogenic, fluorescent group of bacteria. Key no., Ark.-18. Price, 5¢.

Chemical transformations of phosphorus in the growing corn plant, with results on two first-generation crosses. Key no., Ill.-50. Price, 5¢.

The biology of *Opius melleus* Gahan, a parasite of the blueberry maggot. Key no. K-233. Price, 5¢.

Base-exchange modifications of a Leonardtown silt loam under fertilizer and crop control. Key no., H-23. Price, 5¢.

Observations on a severe outbreak of mycosis in chicks. Key no., Conn. (Storrs)-3. Price, 5¢.

The effect of different soaps on lead arsenate in spray mixtures. Key no., N.J.-24. Price, 5¢.

A method for determining the specificity of the intracellular globulin of *Fusarium lini*. Key no., N.Dak.-6. Price, 5¢.

¹ These may be obtained from the issuing bureau.

— Vol. 46, no. 3. Illus. February 1, 1933.

Contents:

- Psyllid yellows of the potato. Key no., Utah-30. Chromosomes in *Gossypium* and related genera. Key no., G-832. Price, 5¢.
 The vitamin A content of alfalfa as affected by exposure to sunshine in the curing process. Key no., Ariz.-7. Price, 5¢.
 The antirachitic value of alfalfa as affected by exposure to sunshine in the curing process. Key no., Ariz.-8. Price, 5¢.
 Infection of corn plants by *Physothera zae-maydis* Shaw. Key no., Fla.-6. Price, 5¢.
 The distribution of nitrogen in tobacco when the supplies of nitrogen and of light are varied during the growing period. Key no., Mass.-34. Price, 5¢.
 Studies on the dissociation of the *Brucella* group. Key no., Mich.-19. Price, 5¢.
 Effects of formaldehyde *Ceratostomella fimbriata* and the sweetpotato. Key no., N.C.-29. Price, 5¢.

— Vol. 16, no. 4. Illus. February 15, 1933.

Contents:

- Efficacy and safety of abortion vaccines prepared from *Brucella abortus* strains of different degrees of virulence. Key no., A-154. Price, 5¢.
 Efficacy of an avirulent strain of *Brucella abortus* for vaccinating pregnant cattle. Key no., A-155. Price, 5¢.
 Biology of the flour beetles, *Tribolium confusum* Duv. and *T. ferrugineum* Fab. Key no., K-234. Price, 5¢.
Hyposoter disparis Viereck, an introduced Ichneumonid parasite of the gipsy moth. Key no., K-235. Price, 5¢.
 Curved-line relationships between certain short-period egg yields and annual egg production in Single-Comb White Leghorn fowls. Key no., N.J.-25. Price, 5¢.
 Inheritance in Albit wheat of resistance to bunt, *Tilletia tritici*. Key no., Oreg.-18. Price, 5¢.
 The vitamin C content of the Winesap apple as influenced by fertilizers. Key no., Wash.-18. Price, 5¢.
 Yield and chemical composition of certain pasture crops, fertilized and unfertilized. Key no., Wash.-19. Price, 5¢.

— Vol. 46, no. 5. Illus. March 1, 1933.

Contents:

- Composition of rhubarb at different stages of maturity in relation to its use in cooking and canning. Key no., G-834. Price, 5¢.
 Progressive changes in the cuticle of apples during growth and storage. Key no., G-835. Price, 5¢.
 Inheritance of bunt reaction and other characters in Hope wheat crosses. Key no., G-836. Price, 5¢.
Rhabditis lambdaiensis, a nematode possibly acting as a disease agent in mushroom beds. Key no., G-837. Price, 5¢.
 Elimination of natural mortality as a factor in determining the effectiveness of hydrocyanic acid gas on the California red scale. Key no., K-236. Price, 5¢.
 The possible effect of hydrogen-ion concentration on the absorption of potassium and phosphorus by wheat plants under field conditions. Key no., E-52. Price, 5¢.
 Germination of the seed of farm crops in Colorado after storage for various periods of years. Key no., Colo.-7. Price, 5¢.
 The relative digestibility by rats of the milk of five breeds of dairy cattle. Key no., Ill.-51. Price, 5¢.
 The carbon metabolism of *Fusarium oxysporum* on glucose. Key no., Pa.-41. Price, 5¢.

Monthly weather review. Vol. 60, no. 12, December 1932; vol. 61, no. 1, January 1933. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign. Not for general distribution.

Public roads. Vol. 14, no. 1, March 1933. Price, 10¢ a copy, \$1 a year, domestic; \$1.50 a year, foreign.

The official record. Vol. 11, Index, January 2–December 31, 1932. Price, 5¢; vol. 12, nos. 9–16, March 4–April 22, 1933. Price, 5¢ a copy; 50¢ a year, domestic; \$1.10 a year, foreign.

Weekly weather and crop bulletin. Nos. 9–17, February 28–April 25, 1933. Price, 50¢ a year, domestic; \$1 a year, foreign.

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MAY-JUNE 1933

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GENERAL PUBLICATIONS

FARMERS' BULLETINS

- Home storage of vegetables. (F.B. 879F., rev.) Price, 5¢.
Growing peaches: Sites and cultural methods. (F.B. 917F., rev.) Price, 5¢.
The larger corn stalk-borer. (F.B. 1025, rev.) Price, 5¢.
Production of late or main-crop potatoes. (F.B. 1064F., rev.) Price, 5¢.
Canning fruits and vegetables at home. (F.B. 1471F., rev.) Price, 5¢.
Asparagus culture. (F.B. 1646F., rev.) Price, 5¢.
Construction of chimneys and fireplaces. (F.B. 1649F., rev.) Price, 5¢.
Marketing hay by modern methods. (F.B. 1700F.) Price, 5¢.
Corncribs for the Corn Belt. (F.B. 1701F.) Price, 5¢.
Preparing peaches for market. (F.B. 1702F.) Price, 5¢.

LEAFLETS

- Preservation of leather bookbindings. (Leaf. 69L., rev.) Price, 5¢.
How to control ragweed, the principal cause of autumn hay fever. (Leaf. 95L.) Price, 5¢.

TECHNICAL BULLETINS

- The public domain of Nevada and factors affecting its use. (T.B. 301T.) Price, 75¢.
Use of the exponential yield curve in fertilizer experiments. (T.B. 348T.) Price, 10¢.
Life history of the Angoumois grain moth in Maryland. (T.B. 351T.) Price, 5¢.
Agricultural investigations at the Huntley (Mont.) Field Station, 1927-30. (T.B. 353T.) Price, 10¢.
State land-settlement problems and policies in the United States. (T.B. 357T.) Price, 10¢.
Curley-top resistance in sugar beets and tests of the resistant variety U.S. no. 1. (T.B. 360T.) Price 10¢.
The Hessian fly in the Pacific Northwest. (T.B. 361T.) Price, 5¢.
Bacterial wilt of corn. (T.B. 362T.) Price, 5¢.
The parasites of the sugarcane borer in Argentina and Peru, and their introduction into the United States. (T.B. 363T.) Price, 5¢.

CIRCULARS

- Root development of cotton plants in the San Joaquin Valley of California. (Cir. 262C.) Price, 5¢.
The citrus insects of tropical Asia. (Cir. 266C.) Price, 5¢.
A pest of cured tobacco, *Ephestia elutella* Hübner. (Cir. 269C.) Price, 5¢.
Contact sprays for the Japanese beetle. (Cir. 280C.) Price, 5¢.

MISCELLANEOUS PUBLICATIONS

- Summary of State and territorial plant quarantines affecting interstate shipments. (M.P. 80MP., rev.) Price, 10¢.

Directory of field activities of the Bureau of Plant Quarantine, 1933. (M.P. 155 MP.) Price, 10¢.
Power and machinery in agriculture. (M.P. 157MP.) Price, 5¢.

SOIL SURVEYS

California. The San Louis Obispo Area. (No. 29, series 1928.) Price, 35¢.
Georgia. Hart County. (No. 12, series 1929.) Price, 25¢.
Idaho. The Gooding Area. (No. 10, series 1929.) Price, 30¢.
Mississippi. Hancock County. (No. 4, series 1930.) Price, 30¢.
New Mexico. The Rincon Area. (No. 5, series 1930.) Price, 35¢.
Wyoming. The Basin Area. (No. 27, series 1928.) Price, 60¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

United States standards for grades of canned peas. (S.R.A.-B.A.E. 140.)¹
United States standards for grades of canned tomatoes. (S.R.A.-B.A.E. 141.)¹
Amendment 3 to rule 3, revision 7, to prevent the spread of scabies in sheep. (Releasing from quarantine San Clemente Island, California.) Effective May 15, 1933. (Amendment 3 to B.A.I. Order 303.) Price, 5¢.
Service and Regulatory Announcements, Bureau of Animal Industry, April 1933. (S.R.A.-B.A.I. 312.) Price, 5¢.
Information, instructions, rulings, etc., concerning the work of the Bureau of Animal Industry, May 1933. (S.R.A.-B.A.I. 313.) Price, 5¢.
Migratory Bird Treaty Act regulations relating to propagating permits. Bureau of Biological Survey.¹
Migratory Bird Treaty Act regulations relating to scientific-collecting permits. Bureau of Biological Survey.¹
Notices of judgment under the Food and Drugs Act. N.J., F.D. 19851-19900); (N.J., F.D. 19901-20000); N.J., F.D. 20001-20150.)¹

OTHER PUBLICATIONS

Directory of the Bureau of Animal Industry. Corrected to February 16, 1933. Price, 10¢.
Field crops for interior Alaska. (Alaska Cir. 4.) Price, 5¢.
Federal laws relating to wild life in Alaska. (Alaska G.C.Cir. 10.) Price, 5¢.
Regulations relating to game, land fur animals, and birds in Alaska. (Alaska G.C.Cir. 11.) Price, 5¢.
Report of the Hawaii Agricultural Experiment Station, 1932. Price, 5¢.
Report of the Virgin Islands Agricultural Experiment Station, 1932. Price, 5¢.
Plant material introduced by the Division of Foreign Plant Introduction, Bureau of Plant Industry, April 1 to June 30, 1931. (Nos. 92337-93748.) (Inventory no. 107.)
—— July 1 to September 30, 1931. (Nos. 93749-94282.) (Inventory no. 108.) Price, 5¢.
Science serving agriculture. Price, 5¢.

PERIODICALS

Periodicals may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 17, nos. 5-6, May 1 to June 1, 1933. Price, 5¢ a copy; 25¢ a year domestic; 40¢ a year foreign.
Crops and markets. Vol. 10, nos. 4-5, April to May, 1933. Price, 5¢ a copy; 60¢ a year domestic; 85¢ a year foreign.
Daily weather maps. Limited editions. Not for general distribution.

Price, daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States; 20¢ a month, \$2.40 a year.

Experiment station record. Vol. 68, nos. 5-6; May to June 1933. Single number for sale only. Price, 10¢.

¹ These may be obtained from the issuing bureau.

Forest worker. Vol. 9, no. 3, May 1933. Price, 5¢ a copy; 25¢ a year domestic; 35¢ a year foreign.

Journal of agricultural research. Price, \$2.25 a year domestic; \$3.50 a year foreign. Not distributed free to individuals. Each issue, price, 10¢. Reprints, 5¢ each.

— Vol. 46, no. 6. Illus. March 15, 1933.

Contents:

- Influence of light, temperature, and soil moisture on the hardening process in alfalfa. Key no. G-833.
- Larval instars and feeding of the black cutworm, *Agrotis ypsilon* Rott. Key no. K-238.
- Development of the nodular worm, *Oesophagostomum longicaudum*, in the pig. Key no. A-156.
- Some summer-wood percentage relationships in the southern pines. Key no. F-61.
- The hemoglobin content of the blood of healthy and anemic "salt-sick" cattle. Key no. Fla.-7.
- Normal growth of potato leaves in greenhouse and field. Key no. Vt.-4.

— Vol. 46, vol. 7. Illus. April 1, 1933.

Contents:

- Hibernation of the Mexican bean beetle in the Estancia Valley, N.Mex. Key no. K-237.
- Olfactory responses of blowflies, with and without antennæ, in a wooden olfactometer. Key no. K-239.
- Perfecting a stand-density index for even-aged forests. Key no. F-62.
- Yellows-resistant lines of Jersey Wakefield cabbage. Key no. G-838.
- The effects of nonbeneficial nodule bacteria on Austrian winter pea. Key no. H-24.
- Chemical composition of native Alaskan hays harvested at different periods of growth. Key no. E-53.
- A chemical study of ensiling soybeans. Key no. Fla.-8.

— Vol. 46, no. 8. Illus. April 15, 1933.

Contents:

- Method of determining age of blister rust infection on western white pine. Key no. G-839.
- Some storage and transportation diseases of citrus fruits apparently due to suboxidation. Key no. Mich.-20.
- Evaporation from salt solutions and from oil-covered water surfaces. Key no. L-1.
- The effect of latitude, length of growing season, and place of origin of seed on the yield of cotton varieties. Key no. Ga.-7.
- The hairy-vetch Bruchid, *Bruchus brachialis* Fahraeus, in the United States. Key no. K-240.
- The associative effects of feeds in relation to the utilization of feed energy. Key no. Pa.-42.

— Vol. 46, no. 9. Illus. May 1, 1933.

Contents:

- Factors affecting infection of wheat heads by *Gibberella saubinetii*. Key no. G-840.
- Ophiobolus oryzinus*, the cause of a rice disease in Arkansas. Key no. G-841.
- Sclerotia-forming habits of the cotton root-rot fungus in Texas black-land soils. Key no. G-842.
- Artificial transmission of sugarcane mosaic. Key no. G-843.
- The effect of cooking on the vitamin A and C content of fresh and dried apricots. Key no. Calif.-63.
- Insects collected on apple blossoms in western New York. Key no. N.Y. (Cornell)-22.
- Economic status of the green stinkbug with reference to the succession of its wild hosts. Key no. Va.-12.

— Vol. 46, no. 10. Illus. May 15, 1933.

Contents:

- Comparative responses of a spring and a winter wheat to day length and temperature. Key no. G-848.
- Effects of chlorine, bromine, and fluorine on the tobacco plant. Key no. G-847.
- Infectious variegation in the apple. Key no. Mich.-21.
- Experiments on the control of seed-borne diseases by X rays. Key no. Mo.-11.
- Effect of long-continued muscular exercise upon the chemical composition of the muscles and other tissues of beef cattle. Key no. Ill.-52.
- The development and functional activities of the albino rat as affected by diets deficient in iron. Key no. Pa.-43.

Monthly weather review. Vol. 61, nos. 2-3, February to March 1933. Illus. Price, 15¢ a copy; \$1.50 a year domestic; \$2.25 a year foreign. Not for general distribution.

Public roads. Vol. 14, nos. 2-3, April to May 1933. Price, 10¢ a copy, \$1 a year domestic; \$1.50 a year foreign.

The official record. Vol. 12, nos 17-25, April 29 to June 17, 1933. Price, 5¢ a copy; 50¢ a year domestic; \$1.10 a year foreign.
Weekly weather and crop bulletin. Nos. 18-26, May 2 to June 27, 1933. Price, 50¢ a year domestic; \$1 a year foreign.

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FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Milk for the family. Rowena Schmidt Carpenter, Bureau of Dairy Industry. 30 p., illus. (F.B. 1705F.) Price, 5¢.

Feeding dairy cows. T. E. Woodward and A. B. Nystrom, Bureau of Dairy Industry. 18 p., illus. (F.B. 1626F., rev.) Price, 5¢.

Beef production on the farm. W. H. Black and E. W. McComas, Bureau of Animal Industry. 14 p., illus. (F.B. 1592F., rev.) Price, 5¢.

Feeding cottonseed products to livestock. E. W. Sheets and E. H. Thompson, Bureau of Animal Industry. 14 p., illus. (F.B. 1179F., rev.) Price, 5¢.

Milk goats. Edward L. Shaw, Bureau of Animal Industry. 33 p., illus. (F.B. 920F., rev.) Price, 5¢.

Duck raising. Alfred R. Lee and Sheppard Haynes, Bureau of Animal Industry. 22 p., illus. (F.B. 697F., rev.) Price, 5¢.

LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletins except that the leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and are limited to eight pages.

Pulpwood crops in the Northeast. M. Westveld, Forest Service. 8 p., illus. (Leaf. 57L. rev.) Price, 5¢.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited as they are intended primarily for scientific workers and subject-matter specialists.

An analysis of log production in the "Inland Empire" region. M. Bradner, F. J. Klobucher, J. W. Girard, and S. V. Fullaway, jr., Forest Service. 87 p., illus. (T.B. 355T.) Price, 10¢.

Yellow poplar characteristics, growth, and management. E. F. McCarthy, Forest Service. 58 p., illus. (T.B. 356T.) Price, 5¢.

Laboratory and field tests of concrete exposed to the action of sulphate waters. Dalton G. Miller, Bureau of Agricultural Engineering, and Philip W. Manson, Agricultural Experiment Station, University of Minnesota. 80 p., illus. (T.B. 358T.) Price, 10¢.

The composition and distribution of phosphate rock with special reference to the United States. K. D. Jacob, W. L. Hill, H. L. Marshall, and D. S. Reynolds, Bureau of Chemistry and Soils. 90 p. (T.B. 364T.) Price, 10¢.

Biology of *Brachymeria fonscolombei* (Dufour), a hymenopterous parasite of blow-fly larvae, Raiford A. Roberts, Bureau of Entomology. 22 p., illus. (T.B. 365T.) Price, 5¢.

The use of winter legumes in the Southeastern States. A. D. McNair, Bureau of Agricultural Economics, and Roland McKee, Bureau of Plant Industry. 36 p., illus. (T.B. 367T.) Price, 5¢.

Effectiveness of the swine sanitation system in the South. E. N. Nighbert and J. W. Connelly, Bureau of Animal Industry. 15 p., illus. (T.B. 374T.) Price, 5¢.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

The infestation of corn ears by the European corn borer, and cribbed corn as an auxiliary source of infestation. L. H. Patch, Bureau of Entomology. 8 p., illus. (Cir. 275C.) Price, 5¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Notices of judgment under the food and drugs act. Food and Drug Administration, pp. 741-762. (N.J., F.D., 20151-20175.)¹

SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

California, The Oceanside Area. (No. 11, Series 1929.) Price, 25¢.

Georgia, Worth County. (No. 13, Series 1929.) Price, 30¢.

OTHER PUBLICATIONS

Range grasses of Hawaii. J. C. Ripperton, R. A. Goff, D. W. Edwards, and W. C. Davis, Hawaii Agricultural Experiment Station. 58 p., illus. (Hawaii Bul. 65.) Price, 5¢.

Report on the agricultural experiment stations, 1932. J. T. Jardine and W. H. Beal. 62 p. Price, 5¢.

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 17, No. 7, July 1, 1933. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.²

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

Crops and markets. Vol. 10, No. 6, June 1933. Price, 5¢ a copy; 60¢ a year, domestic; 85¢ a year, foreign.²

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price, daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States; 20¢ a month, \$2.40 a year.²

¹ These may be obtained from the issuing bureau.

² Payable to the Superintendent of Documents, Government Printing Office, Washington, D.C.

Experiment station record. Vol. 67, index number; Vol. 69, No. 1, July 1933. Single numbers for sale only. Price, 10¢.²

A technical review of the world's scientific literature pertaining to agriculture. Two volumes a year, of 10 numbers each; 75¢ a volume, domestic; \$1.25 a volume, foreign.

Monthly weather review. Vol. 61, No. 4, April 1933. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.¹ Not for general distribution.

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretative summary, and (3) climatological tables.

Public roads. Vol. 14, No. 4, June 1933. Illus. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.

The official record. Vol. 12, No. 26, July 1, 1933. Price, 5¢ a copy.²

Contains official orders and miscellaneous information concerning the Department's activities and such other matter as should be brought to employees' attention.

Weekly weather and crop bulletin. Nos. 27-30, July 4, 11, 18, 25, 1933. Price, 50¢ a year, domestic; \$1 a year, foreign.²

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

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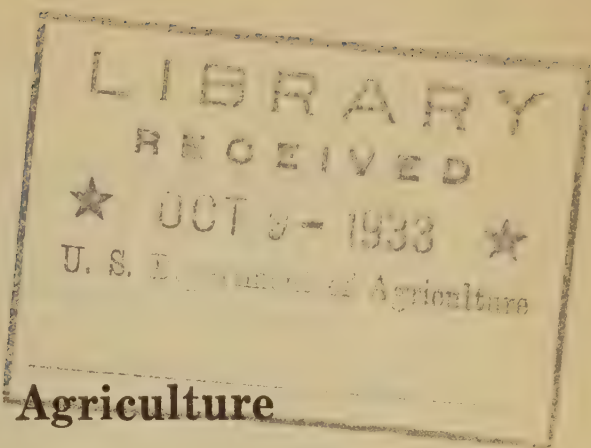
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FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

The rough-headed corn stalk beetle in the Southern States and its control. W. J. Phillips and Henry Fox. Bureau of Entomology. 6 p., illus. (F.B. 875F., rev.) Price, 5¢.

Strawberry diseases. Neil E. Stevens, Bureau of Plant Industry. 18 p., illus. (F.B. 1458F., rev.) Price, 5¢.

Rat control. James Silver, Bureau of Biological Survey. 21 p., illus. (F.B. 1533 F., rev.) Price, 5¢.

Marketing farm produce by parcel post. Lewis B. Flohr, Bureau of Agricultural Economics. 54 p., illus. (F.B. 1551F., rev.) Price, 5¢.

LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletins except that the leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and are limited to eight pages.

Improving cattle in areas freed of ticks. John R. Mohler. Bureau of Animal Industry. 8 p., illus. (Leaflet 51L, rev.) Price, 5¢.

Gives practical suggestions to livestock owners in tick-free areas on the introduction, successful breeding, and feeding of improved cattle. Also contains information on marketing improved livestock.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited as they are intended primarily for scientific workers and subject-matter specialists.

Character and behavior of organic soil colloids. M. S. Anderson and Horace G. Byers, Bureau of Chemistry and Soils. 32 p. (Technical Bulletin 377T.) Price, 5¢.

A study of the properties of organic colloids as such, and special information concerning the organic portion of soil colloids. The various methods used in extracting them from the soil are described.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Tests of varieties and strains of large-seeded Virginia-type peanuts. J. H. Beattie, Bureau of Plant Industry, and E. T. Batten, in cooperation with the Virginia Agricultural Experiment Station. 4 p. (Circular 272C.) Price, 5¢.

Of interest to peanut growers in assisting them to produce large-sized, plump, high-quality peanuts for the market. Suggestions given for developing such strains of stock as will improve conditions for both growers and handlers.

The survival of European corn-borer larvae in barns and other storage places. L. B. Scott and L. H. Patch. Bureau of Entomology. 7 p. (Circular 281C.) Price, 5¢.

Experiments for control of corn borer by disposal of borer-infested cornstalks prior to the beginning of moth emergence are described. Recommendations made on basis of information obtained from these investigations.

Three bacterial spots of tomato fruit. Mary K. Bryan, Bureau of Plant Industry. [5 p.] illus. (Circular 282C.) Price, 5¢.

Enables one to recognize the diseases of the tomato fruit caused by three different organisms. A fourth spot of unknown origin, similar to bacterial canker, is described to prevent its confusion with this disease.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

Black currant spreads white-pine blister rust. Samuel B. Detwiler, Bureau of Plant Industry. 8 p., illus. (Miscellaneous Publication 27MP. rev.) Price, 5¢.

Our forests; what they are and what they mean to us. Marie Foote Heisley, Forest Service. (Miscellaneous Publication 162MP.) Price, 5¢.

Traces the importance of a forest background from the earliest colonial times to the present. Forests are described as the "backbone of the nation", and the conservation of our trees is an urgent problem to all Americans. Much information herewith contained may be used in Arbor Day programs.

SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

Iowa, Crawford County. (No. 30, Series 1928.) Price, 20¢.

Texas, Midland County. (No. 31, Series 1928.) Price, 20¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Service and regulatory announcements, Bureau of Animal Industry. June 1933. pp. 51-59. (S.R.A.B.A.I. 314.) Price, 5¢.

Packing materials quarantine; amendment no. 1 to notice of quarantine no. 69, Bureau of Plant Quarantine. 1 p. (B.P.Q.-Q. 69.)¹

Index to Service and regulatory announcements, 1932, Bureau of Plant Quarantine. 3 p. (S.R. A., B.P.Q. Index, 1932.)¹

Service and regulatory announcements, Bureau of Plant Quarantine. January-March 1933. pp. 137-175. (S.R.A.-B.P.Q. No. 114.)¹

Notices of judgment under the Insecticide Act. Food and Drug Administration. pp. 151-161. (N.J.I.F., 1261-1275.)¹

Notice of judgment under the regulations of the Naval Stores Act. Food and Drug Administration. 1 p. (N.J.N.S. No. 5.)¹

PERIODICALS

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A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

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Crops and markets. Vol. 10, no. 7, July 1933. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.²

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Experiment station record. Vol. 69, no. 2, August 1933. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.50 per volume, foreign.¹ Single number for sale only. Price, 15¢.²

A technical review of the world's scientific literature pertaining to agriculture. Two volumes a year, of 10 numbers each; 1.00 a volume, domestic; \$1.50 a volume, foreign.

Extension service review. Vol. 4, no. 4, July 1933. Illus. Price, 5¢ a copy; 25¢ a year, domestic; 45¢ a year, foreign.²

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

Forest worker. Vol. 9, no. 4, July 1932. Price, 5¢ a copy; 25¢ a year, domestic; 35¢ a year, foreign.²

News of State forestry, forestry education, private forestry, and the work of the Forest Service.

Journal of agricultural research. Price, \$2.25 a year domestic; \$3.50 a year foreign. Not distributed free to individuals. Each issue, price 10¢. Reprints, 5¢ each.²

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

— vol. 46, no. 11. Illus. June 1, 1933.

Contents:

Lydella nigripes and *L. Piniariae*, fly parasites of certain tree-defoliating caterpillars. Key no. K-241. Philip B. Dowden.

Porosity and water absorption of forest soils. Key no. F-63. John T. Auten.

Inheritance of *Fusarium* resistance in Brussels sprouts and kohlrabi. Key no. G-844. L. M. Blank and J. C. Walker.

Effect of flourine on the nutrition of swine, with special reference to bone and tooth composition. Key no. Ohio-12. C. H. Kick, R. M. Bethke, and B. H. Edgington.

Vitamin C content of Baldwin apples and apple products. Key no. Mass.-35. C. R. Fellers, M. M. Cleveland, and J. A. Clague.

Somatic segregation in a sectorial chimera of the Bartlett pear. Key no. Mich.-22, V. R. Gardiner, J. W. Crist, and R. E. Gibson.

— vol. 46, no. 12. Illus. June 15, 1933.

Contents:

Morphology of reproduction in *Ceratostomella fimbriata*. Key no. G-845. C. F. Andrus and L. L. Harter.

Vein spot of the pecan caused by *Leptothyrium nervisedum*, n. sp. Key no. G-849. J. R. Cole.

Plaster molds occurring in beds of the cultivated mushroom. Key no. G-851. Vera K. Charles and Edmund B. Lambert.

A photomicrographic study of gelatinized wheat starch. Key no. Ill.-53. Sybil Woodruff and Lucile Rankin Webber.

Milk-energy formulas for various breeds of cattle. Key no. Ill.-54. O. R. Overman and W. L. Gaines.

Inheritance of reaction to stem rust and barbing of awns in barley crosses. Key no. Minn.-81. Leroy Powers and Lee Hines.

Laboratory tests with various fumigants on codling-moth larvae. Key no. N.J.-26. Joseph M. Ginsburg.

Apparatus for making autographic records of catalase activity of plant tissues, and the procedure involved. Key no. N.Y. (Cornell)-23. Arthur J. Heinicke.

— vol. 47, no. 1. Illus. July 1, 1933.

Contents:

Further cytological studies of heterothallism in *Puccinia graminis*. Key no. G-846. Ruth F. Allen.

Weeds as possible carriers of leaf roll and rugose mosaic of potato. Key no. G-853. T. P. Dykstra.

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Journal of agricultural research—Continued

Contents—Continued

- Effects of plant spacing and irrigation on number of locks in cotton bolls. Key no. G-855. A. R. Leding and L. R. Lytton.
 Lysimeter experiments with sulphate of ammonia and nitrate of soda. Key no. N.Y. (Cornell)-24. T. L. Lyon and J. A. Bizzell.

— vol. 47, no. 2. Illus. July 15, 1933.

Contents:

- Variability in the pea-wilt organism, *Fusarium orthoceras* var. *pisil*. Key no. Wis.-56. William C. Snyder.
 Inheritance of reaction of wheat to physiologic forms of *Tilletia levis* and *T. tritici*. Key no. G-850. William K. Smith.
 Growth of the cotton root-rot fungus in synthetic media, and the toxic effect of ammonia on the fungus. Key no. G-857. David G. Neal, R. E. Webster, and Kenneth C. Gunn.
 Distribution and rate of fall of conifer seeds. Key no. F-64. Howard W. Siggins.

— vol. 47, no. 3. Illus. August 1, 1933.

Contents:

- Yield and protein content of hard red spring wheat under conditions of high temperature and low moisture. Key no. N.Dak.-7. L. R. Waldron.
 Rubber content of various species of goldenrod. Key no. G-852. Loren G. Polhamus.
 Injury to pears caused by paper liners impregnated with sodium silicate. Key no. G-856. D. H. Rose and J. M. Lutz.
 Vitamins C and A in blueberries. Key no. Mass.-36. C. R. Fellers and P. D. Isbam.
 The law diminishing returns in Agriculture. Key no. Wis.-57. P. E. McNall.
 Some factors affecting the electrolytes of the starch granules. Key no. J-1. D. W. Edwards and J. C. Ripperton.

Public roads. Index to volume 13, March 1932–February 1933. Price, 5¢. Vol. 14, no. 5, July 1933. Illus. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.²

Weekly weather and crop bulletin. Nos. 31–35, August 1, 8, 15, 22, 29, 1933. Price, 50¢ a year, domestic; 1 a year, foreign.²

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The disinfection of stables. George W. Pope. Bureau of Animal Industry. 13 p., illus. (F.B. 954F., rev.) Price, 5¢.

Harvesting and storing ice on the farm. John T. Bowen. Bureau of Agricultural Engineering. 25 p. illus. (F.B. 1078F., rev.) Price, 5¢.

Rabbit parasites and diseases. Benjamin Schwartz and W. B. Shook. Bureau of Animal Industry. 30 p., illus. (F.B. 1568F., rev.) Price, 5¢.

LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletins except that the leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and are limited to eight pages.

Cross-blocking sugar beets by machine. E. M. Mervine. Bureau of Agricultural Engineering. A. W. Skuderna. Bureau of Plant Industry. 6 p., illus. (Leaf. 97L.) Price, 5¢.

Describes the machine set-ups by which sugar beets may be satisfactorily blocked by machine. Tests show definitely that mechanical blocking may be substituted for hand blocking.

Huron timothy. Morgan W. Evans. Bureau of Plant Industry. 5 p., illus. (Leaf. 99L.) Price, 5¢.

Stresses the peculiar adaptation requirements of Huron timothy and presents practical recommendations for the production of this variety of hay in many sections of the country where it was at first unsuccessfully grown.

Injury to buildings by termites. Thos. E. Snyder. Bureau of Entomology. 8 p., illus. (Leaf. 101L.) Price, 5¢.

Describes termites and the damage they do, and lists the types of construction most likely to be invaded. Risk from termites can be prevented by strict observance to the recommendations herein given.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited as they are intended primarily for scientific workers and subject-matter specialists.

Changes in quantity and composition of fat in hogs fed a peanut ration followed by a corn ration. N. R. Ellis. Bureau of Animal Industry. 14 p. (T.B. 368T.) Price, 5¢.

A study of the quantitative relationship of storage of fat to firmness in hogs as influenced by the use of peanuts and of corn in successive feeding periods.

Pima Egyptian cotton in irrigated rotations at the Yuma Field Station, Bard, Calif. Stephen H. Hastings and Edward G. Noble. Bureau of Plant Industry. 31 p., illus. (TB. 339T.) Price, 5¢.

Furnishes information urgently needed by prospective cotton growers regarding types and varieties of cotton, methods of planting, irrigation, and tillage of the crop, and means of producing adequate supplies of seed for planting each year.

A classification of North American Agallian leaf hoppers. P. W. Oman. Bureau of Entomology. 94 p., illus. (T.B. 372T.) Price, 10¢.

Treats of the problems involved in insect interrelationship and the requirements for accurate identification of species in this group. Of prime value to entomologists.

Selective logging in the shortleaf and loblolly pine forests of the Gulf States region. R. D. Garver and R. H. Miller. Forest Service. 54 p. (T.B. 375T.) Price, 5¢.

Selective logging or selective cutting of our pine forests correlates present-day silvicultural and economic requirements in a practical way. This bulletin treats the subject in an interesting manner and contains many helpful suggestions for the forester.

Alpine kalmia (*Kalmia microphylla*) as a stock-poisoning plant. A. B. Clawson. Bureau of Animal Industry. 10 p. illus. (T.B. 391T.) Price, 5¢.

Describes experiments to determine the toxicity of alpine kalmia and gives helpful recommendations for the protection of grazing animals. Of special value to livestock owners.

Observations on the thermal death points of *Anastrepha ludens* (Loew.) Hugh H. Darby and E. M. Kapp. Bureau of Entomology. 19 p., illus. (T.B. 400T.) Price, 5¢.

A study of the reactions to temperature changes of *Anastrepha ludens* in its larval, pupal, and adult stages. Applications of these findings to the sterilization of vegetable products is suggested.

CIRCULARS

This series carries the less technical and more informal material of the same nature as that in the Technical Bulletin series.

United States grades, color standards, and packing requirements for honey. Bureaus of Entomology and Agricultural Economics. 28 p. (Cir. 24C., rev.) Price, 5¢.

Effects of time of planting and of fertilizer mixtures on the curly-top resistant sugar-beet variety U.S. No. 1 in Idaho. A. W. Skuderna and C. E. Cormany. Bureau of Plant Industry. L. A. Hurst. Bureau of Chemistry and Soils. 16 p. (Cir. 273C.) Price, 5¢.

Describes the utilization of a curly-top resistant sugar-beet variety in affected areas. Proper fertilizing for these crops is discussed and recommendations of practical value to commercial sugar-beet growers are given.

Comparison of a trench silo with an upright silo. J. R. Dawson and A. G. Van Horn. Bureau of Dairy Industry. 16 p. (Cir. 274C.) Price, 5¢.

Points out the advantages and disadvantages of a trench silo and an upright silo. The costs of filling the silos and removing the silage from them are computed, and the costs of construction given.

The Katahdin and Chippewa potatoes. C. F. Clark, William Stuart, and F. J. Stevenson. Bureau of Plant Industry. 8 p., illus. (Cir. 276C.) Price, 5¢.

Describes in detail the cultural methods for propagating these new potato varieties, Katahdin and Chippewa, which are resistant to mild mosaic.

The Oriental moth (*Cnidocampa flavescens* Walk.) and its control. C. W. Collins. Bureau of Entomology. 8 p., illus. (Cir. 277C.) Price, 5¢.

A study of the introduction and spread of the Oriental moth in this country. Control in its early stage is effected by spraying with lead arsenate. Crushing or hand-picking and destroying the cocoons is also suggested.

The commercial storage of fruits, vegetables, and florists' stocks. Dean H. Rose, R. C. Wright, and T. M. Whiteman. Bureau of Plant Industry. 40 p. (Cir. 278C.) Price, 5¢.

Summarizes the essential average storage requirements of more important varieties of fresh fruits, vegetables, cut flowers, and other perishable commodities which are commercially marketed.

Grades of peat and muck for soil improvement. A. P. Dachnowski-Stokes. Bureau of Chemistry and Soils. 31 p., illus. (Cir. 290C.) Price, 5¢.

Describes how soil may be improved by maintaining and increasing the content of organic matter. The efficacy of commercial fertilizers and the value of peat in improving soil conditions are carefully set forth, and a definite program for preventing soil depletion is recommended.

Fight grasshoppers by plowing stubble. J. R. Parker, Bureau of Entomology. 4 p. (Cir. 302C.) Price, 5¢.

Plowing stubble land is an effective method of killing grasshoppers. The cooperative action of farmers in grasshopper-infested districts is urgently recommended for ridding such areas of these pests.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

Winter feeding of wild life on northern farms. Wallace B. Grange. Bureau of Biological Survey. 12 p., illus. (M.P. 159MP.) Price, 5¢.

Winter feeding of our wild life should be considered as a definite program to follow. With farming and other industrial operations constantly encroaching on the former domain of wild life, the provision of food during periods of stress, particularly in winter, is especially important.

Proposed revised Federal grain standards, including explanations. Bureau of Agricultural Economics. 159 p. (M.P. 173MP.) Price, 10¢.

A summary presenting for public consideration studies made as to possibilities for improving standards for wheat, rye, corn, oats, feed oats, barley, and grain sorghums promulgated since 1916, and for establishing new standards for mixed grain.

STATISTICAL BULLETINS

Tables giving statistics relating to one or more closely related agricultural commodities. Of interest to persons engaged in marketing or any business affected by agricultural production.

Car-lot shipments of fruits and vegetables from stations in the United States for the calendar years 1930 and 1931. Bureau of Agricultural Economics. 151 p. (S.B. 42S.) Price, 10¢.

SOILS SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

Arizona, The Nogales Area. (No. 6, series 1930.) Price, 20¢.

New York, Erie County. (No. 14, series 1929.) Price, 30¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Amendments to regulations 11, 16, 17, and 18, B.A.I. Order 211, revised (regulations governing the meat inspection of the United States Department of Agriculture.) Bureau of Animal Industry. 1 p. (Amendment 7 to B.A.I. Order 211, rev.)¹

Service and regulatory announcements, Bureau of Animal Industry. July 1933. pp. 61-71. (S.R.A.-B.A.I. 315.) Price, 5¢.

Official standards for potatoes; amendment no. 2 to Service and Regulatory Announcements no. 93, revised. Bureau of Agricultural Economics. Effective September 1933. 4 p. (S.R.A.-B.A.E. 93. Amend. 2.)

Migratory Bird Treaty Act regulations and text of Federal laws relating to game and birds. Bureau of Biological Survey. 20 p. (S.R.A.-B.S. 78.)¹

Notices of judgment under the Caustic Poison Act. Food and Drug Administration. 2 p. (N.J., C.P. 12-15.)¹

Definitions and standards for food products. Food and Drug Administration. 20 p. (S.R.A., F.D. no. 2, rev. 4.)¹

Fruit and vegetable quarantine; amendment no. 6 of regulations supplemental to Notice of Quarantine no. 56. Revision of regulation 2. Effective August 1, 1933. 1 p. (B.P.Q.-Q. 56.)¹

OTHER PUBLICATIONS

Forage crops in the Matanuska region, Alaska. H. W. Alberts. Alaska Agricultural Experiment Station. 14 p., illus. (Alaska Bul. 11.) Price, 5¢.

Report of extension work in agriculture and home economics in the United States, 1932. 81 p. Price, 10¢.

¹ These may be obtained from the issuing bureau.

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 17, no. 9. September 1, 1933. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.²

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

Crops and markets. Vol. 9, 1932. Index; vol. 10, no. 8, July 1933. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.²

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States; 20¢ a month, \$2.40 a year.²

Journal of agricultural research. Price, \$2.25 a year domestic; \$3.50 a year foreign. Not distributed free to individuals. Each issue, price 10¢. Reprints, 5¢ each.²

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

— vol. 47, no. 4. Illus. August 15, 1933.

Contents:

Studies on physiologic specialization in *Tilletia tritici* and *T. levis* in the Pacific Northwest. Key no. G-854. H.H. Flor.

A morphological study of flower and seed development in cabbage. Key no. G.-858. Ross C. Thompson.

The inheritance of some plant colors in cabbage. Key no. Ohio-13. Roy Macgruder and C. H. Myers.

The composition of feedstuffs in relation to nutritional anemia in cattle. Key. no. Fla.-9. W. M. Neal and R. B. Becker.

Public roads. Vol. 14, no. 6, August 1933. Illus. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.²

The official record. Index to Vol. 12, January 7 to July 1, 1933. Price, 5¢.

Weekly weather and crop bulletin. Nos. 36-39, September 5, 12, 19, 26, 1933. Price, 50¢ a year, domestic; \$1 a year, foreign.²

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

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FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

- Selecting a farm. E. H. Thomson, Office of Farm Management. 19 p., illus. (F.B. 1088F., rev.) Price, 5¢.
- Farm plumbing. George M. Warren, Bureau of Agricultural Engineering. 22 p., illus. (F.B. 1426F., rev.) Price, 5¢.
- Selling black walnut timber. Warren D. Brush, Forest Service. 21 p., illus. (F.B. 1459F., rev.) Price, 5¢.
- Leather shoes: Selection and care. F. P. Veitch, R. W. Frey, and H. P. Holman, Bureau of Chemistry. 22 p., illus. (F.B. 1523F., rev.) Price, 5¢.
- Lubricating-oil sprays for use on dormant fruit trees. A. L. Quaintance, E. J. Newcomer, and B. A. Porter, Bureau of Entomology. 18 p., illus. (F.B. 1676F., rev.) Price, 5¢.
- Methods and costs of husking corn in the field. Kenneth H. Myers, Bureau of Agricultural Economics. 18 p., illus. (F.B. 1715F.) Price, 5¢.
- Game laws for the season 1933-34: A summary of Federal, State, and Provincial statutes. H. P. Sheldon and Frank G. Grimes, Bureau of Biological Survey. 41 p. (F.B. 1717F.) Price, 5¢.

LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletins except that the Leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and are limited to eight pages.

- Protecting poultry from predacious birds. W. L. McAtee, Bureau of Biological Survey. 6 p., illus. (Leaf. 96L.) Price, 5¢.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited, as they are intended primarily for scientific workers and subject-matter specialists.

- The effect of different colloidal soil materials on the efficiency of superphosphate. Philip L. Gile, Bureau of Chemistry and Soils. 50 p., illus. (T.B. 371T.) Price, 5¢.
- Sweetclover in Great Plains farming. M. A. Crosby, Bureau of Agricultural Economics. 54 p., illus. (T.B. 380T.) Price, 5¢.
- Feeding value for milk production of pasture grasses when grazed, when fed green, and when fed as hay or silage. R. R. Graves, J. R. Dawson, D. V. Kopland, and T. W. Moseley, Bureau of Dairy Industry. 48 p. (T.B. 381T.) Price, 5¢.
- The silt load of Texas streams. Orville A. Faris, Bureau of Agricultural Engineering. 71 p., illus. (T.B. 382T.) Price, 10¢.
- Microbiological studies of salt in relation to the reddening of salted hides. L. S. Stuart, R. W. Frey, and Lawrence H. James, Bureau of Chemistry and Soils. 24 p., illus. (T.B. 383T.) Price, 5¢.
- Inheritance of stem-rust reaction and correlation of characters in Pentad, Nodak, and Akrona durum-wheat crosses. Glenn S. Smith and J. Allen Clark, Bureau of Plant Industry. 28 p., illus. (T.B. 385T.) Price, 5¢.
- The decomposition of hydrolytic peat products including ammoniated peat. I. C. Feustel and H. G. Byers, Bureau of Chemistry and Soils. 32 p. (T.B. 389T.) Price, 5¢.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

- American tobacco types, uses, and markets. Charles E. Gage, Bureau of Agricultural Economics. 88 p., illus. (Cir. 249C., rev.) Price, 20¢.
- Orchard insects of the Pacific Northwest and their control. E. J. Newcomer, Bureau of Entomology. 77 p., illus. (Cir. 270C.) Price, 10¢.

- Virus and viruslike diseases of the potato in the Northwest and their control. M. B. McKay, T. P. Dykstra, H. E. Morris, P. A. Young, B. L. Richards, and H. L. Blood, Bureau of Plant Industry. 32 p., illus. (Cir. 271C.) Price, 5¢.
- Portable refrigeration chambers for studying cold resistance of plants in the field. J. R. Holbert, Bureau of Plant Industry, W. L. Burlison, University of Illinois, and A. G. Johnson, Bureau of Plant Industry. 28 p., illus. (Cir. 285C.) Price, 5¢.
- Variety tests of sugarcanes in Louisiana during the crop year 1931-32. George Arceneaux, I. E. Stokes, R. B. Bisland, and C. C. Krumbhaar, Bureau of Plant Industry. 32 p. (Cir. 298C.) Price, 5¢.

DEPARTMENT CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletins. The series ended in 1927 and is succeeded by the Circular series.

- How lumber is graded. H. S. Betts and R. K. Helphenstine, Jr., Forest Service. 48 p. (D.C. 64DC., rev.) Price, 5¢.

STATISTICAL BULLETINS

Tables giving statistics relating to one or more closely related agricultural commodities. Of interest to persons engaged in marketing or any business affected by agricultural production.

- Grade, staple length, and tenderability of cotton in the United States, 1928-29 to 1931-32. Bureau of Agricultural Economics. 158 p. (S.B. 40S.) Price, 10¢.
- Wheat futures: Volume of trading, open commitments, and prices from January 2, 1930 to December 31, 1932. Grain Futures Administration. 110 p. (S.B. 41S.) Price, 10¢.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

- Testing milk and cream. Philip A. Wright, Bureau of Dairy Industry. 42 p., illus. (M.P. 161MP.) Price, 5¢.
- Officials and organizations concerned with wild-life protection, 1933. Frank G. Grimes, Bureau of Biological Survey. 13 p. (M.P. 166MP.) Price, 5¢.
- A fruit and vegetable buying guide for consumers. R. G. Hill, Bureau of Agricultural Economics. 62 p. (M.P. 167MP.) Price, 5¢.

SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

- Indiana, Blackford County. (No. 32, series 1928.) Price, 15¢.
- Iowa, Hancock County. (No. 9, series 1930.) Price, 20¢.
- New York, Delaware County. (No. 7, series 1930.) Price, 40¢.
- Texas, Van Zandt County. (No. 33, series 1928.) Price, 30¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

- Grades, requirements, and regulations of the Secretary of Agriculture for carrying out the provisions of the Export Apple and Pear Act of June 10, 1933. (48 Stat. 123.) Bureau of Agricultural Economics. (October 1933. 4 p. (S.R.A.-B.A.E. 143.)¹
- Service and regulatory announcements, Bureau of Animal Industry. August 1933. pp. 73-80. (S.R.A.-B.A.I. 316.) ; September 1933. pp. 81-87. (S.R.A.-B.A.I. 317.) Price, 5¢ each.
- Pink bollworm quarantine. Quarantine No. 52, revision of regulations. Effective September 19, 1933. Bureau of Plant Quarantine. 8 p. (B.P.Q.-Q. 52.)¹

¹ These may be obtained from the issuing bureau.

OTHER PUBLICATIONS

- Annual Report of the Chief of the Grain Futures Administration, 1933. J. W. T. Duvel. 10 p. Price, 5¢.
- Feeding dairy cows in the Matanuska region, Alaska. W. T. White, Matanuska station, Alaska. 10 p. (Alaska Cir. 5.) Price, 5¢.
- Plant material introduced by the Division of Foreign Plant Introduction, Bureau of Plant Industry, October 1 to December 31, 1931. (Nos. 94283-95551.) 35 p. (B.P.I. Inventory 109.) Price, 5¢.
- Report of the Chief of the Bureau of Home Economics, 1933. Louise Stanley. 13 p. Price, 5¢.
- Report of the Chief of the Food and Drug Administration, 1933. W. G. Campbell. 19 p. Price, 5¢.
- Report of the Chief of the Office of Experiment Stations, 1933. James T. Jardine. 12 p. Price, 5¢.
- Report of the Director of Information, 1933. M. S. Eisenhower. 11 p. Price, 5¢.
- Report of the Guam Agricultural Experiment Station, 1930-31, 1931-32. 24 p., illus. Price, 5¢.

AGRICULTURAL ADJUSTMENT ADMINISTRATION

NOTE.—The Agricultural Adjustment Administration (also known as the Emergency Agricultural Adjustment Administration and the A.A.A.) was established under the provisions of sec. 10 (a) of H.R. 3835, 73d Congress (Public 10, approved May 12, 1933), an act to relieve existing national economic emergency by increasing agricultural purchasing power, etc.

The corn-hog problem. 12 p. (C-H 1.)

Adjustment for corn-hog farms. 20 p. (C-H 5.)

A handbook on the Corn-Hog Production Adjustment Plan for 1934-35, including statement by the Secretary of Agriculture, the economic background of the corn-hog production problem and an explanation, with examples, of the plan itself.

The Agricultural Adjustment Act and its operation. 13 p. (G-1.)

The first four months under the Farm Act. George N. Peek, Administrator. 8 p. (G-2.)

A balanced harvest. (With Wheat Plan Work Sheet.) Henry A. Wallace. 12 p. illus. (W-5-6.)

Answers to the questions you are asking on the Wheat Adjustment Plan. Wheat Section. 8 p. (W-17.)

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 17, no. 10, October 1, 1933. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.²

Crops and markets. Vol. 10, no. 9, September 1933. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.²

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States; 20¢ a month, \$2.40 a year.²

Experiment station record. Vol. 69, no. 3, September; no. 4, October 1933. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.50 per volume, foreign. Single number for sale only. Price, 15¢.²

Extension service review. Vol. 4, no. 5, September 1933. Illus. Price, 5¢ a copy; 25¢ a year, domestic; 45¢ a year, foreign.²

Journal of agricultural research. Price, \$2.25 a year domestic; \$3.50 a year foreign. Not distributed free to individuals. Each issue, price 10¢; 15¢, foreign. Reprints, 5¢ each.²

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

— vol. 47, no. 5. Illus. September 1, 1933.

Contents:

The flight range of the honeybee. Key No. K-242. John E. Eckert.

Methods of controlling pollination in the pecan. Key No. G-859. Hamilton P. Traub and L. D. Romberg.

² Payable to the Superintendent of Documents, Government Printing Office, Washington, D.C.

Blister rust damage to northern white pine at Waterford, Vt. Key No. G-860. E. C. Filler.

Cytology and breeding of *Rubus macropetalus*, the Logan, and related blackberries. Key. No. G-861. George M. Darrow and A. E. Longley.

Effect of the calcium-phosphorus relationship of the ration on growth and bone formation in the pig. Key No. Ohio-14. R. M. Bethke, B. H. Edington, and C. H. Kick.

Physiologic specialization of *Sphacelotheca cruenta* (Kühn) Potter. Key No. Kans.-69. L. E. Melchers.

Belated development of kernel smut (*Sphacelotheca sorghi*) in apparently healthy sorghum plants. Key No. Kans.-70. L. E. Melchers.

Journal of agricultural research. vol. 47, no. 6. Illus. September 15, 1933.

Contents:

Effect of environmental and cultural factors on the dwarf disease of alfalfa. Key No. G-862. J. L. Welmer.

Effect of steam sterilization on susceptibility of wood to blue-staining and wood-destroying fungi. Key No. G-864. A. Dale Chapman.

Some physiological effects of ultraviolet radiation on honeybees. Key No. K-243. Lloyd M. Bertholf.

Effect of stand irregularities upon the acre yield and plant variability of corn. Key No. Nebr.-17. T. A. Kiesselbach and Ralph M. Weihing.

Influence of pasture management upon the grazing habits of dairy cattle. Key No. I-14. R. E. Hodgson.

True and apparent digestibility of oat hulls and alfalfa meal by swine, with special reference to the ability of swine to digest cellulose and crude fiber. Key No. Ill.-55. H. H. Mitchell and T. S. Hamilton.

An apparatus for the ready determination of areas of compound leaves. Key No. Mich.-23. Roy E. Marshall.

The recovery of *Salmonella pullorum* from the feces of adult carriers of pullorum disease. Key No. N.C.-30. R. E. Greaves, R. S. Dearstyne, and H. C. Gauger.

— vol. 47, no. 7. Illus. October 1, 1933.

Contents:

Some factors influencing the variability in length of cotton fibers on individual plants as shown by the sorter method. Key No. S.C.-7. G. M. Armstrong and C. C. Bennett.

Effect of soil fertility, boll-maturation period, and early or late production of bolls on the length of cotton fibers. Key No. S.C.-8. G. M. Armstrong and C. C. Bennett.

The nature of the sheath material in the feeding punctures produced by the potato-leaf hopper and the three-cornered alfalfa hopper. Key No. K-244. Floyd F. Smith.

Vitamin A content of barley. Key No. Calif.-64. E. H. Hughes.

Assimilation of fixed nitrogen by grasses and clovers. Key No. Mass.-37. A. B. Beaumont, W. S. Eisenmenger, and W. J. Moore, Jr.

Injury to apple by petroleum-oil sprays. Key No. Mont.-22. Paul A. Young and H. E. Morris.

Self- and cross-pollination studies of apple varieties, particularly Rome Beauty and Gallia Beauty. Key No. Ohio-15. Freeman S. Howlett.

Losses of vitamin A in drying fresh raw carrots and sweetpotatoes and canned spinach. Key No. Tex.-10. G. S. Fraps and Ray Treichler.

Monthly weather review. Vol. 61, nos. 6-7, June-July 1933. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.² Not for general distribution.

Public roads. Vol. 14, no. 7, September 1933. Price, 10¢ a copy, \$1 a year, domestic; \$1.50 a year, foreign.²

Weekly weather and crop bulletin. Nos. 40-43, October 3-24, 1933. Price, 50¢ a year, domestic; \$1 a year, foreign.²

² Payable to the Superintendent of Documents, Government Printing Office, Washington, D.C.

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FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Bang's disease (infectious abortion). John M. Buck, Bureau of Animal Industry. 17 p., illus. (F.B. 1704F.) Price 5¢.

Varieties of common white wheat. J. Allen Clark and B. B. Bayles, Bureau of Plant Industry. 22 p. illus. (F.B. 1707F.) Price, 5¢.

Varieties of club wheat. J. Allen Clark and B. B. Bayles, Bureau of Plant Industry. 12 p., illus. (F.B. 1708F.) Price, 5¢.

Pocket-gopher control. W. E. Crouch, Bureau of Biological Survey. 21 p., illus. (F.B. 1709F.) Price, 5¢.

Range sheep production. J. M. Cooper, Bureau of Animal Industry. 34 p., illus. (F.B. 1710F.) Price, 5¢.

Wheat smuts and their control. J. A. Faris, V. F. Tapke, and H. A. Rodenhiser, Bureau of Plant Industry. 17 p., illus. (F.B. 1711F.) Price, 5¢.

The Harlequin bug and its control. W. H. White and L. W. Brannon. Bureau of Entomology. 10 p., illus. (F.B. 1712F.) Price, 5¢.

LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletins except that the Leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and are limited to eight pages.

Lespedeza. A. J. Pieters, Bureau of Plant Industry. 8 p., illus. (Leaf. 100L.) Price, 5¢.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited as they are intended primarily for scientific workers and subject-matter specialists.

Preliminary yield tables for second-growth stands in the California pine region. Duncan Dunning and L. H. Reineke, Forest Service. 24 p. (T.B. 354T.) Price, 5¢.

Further investigations of the parasites of *Popillia japonica* in the Far East. C. P. illus. (T.B. 366T.) Price, 5¢.

Bruising and freezing of apples in storage and transit. Dean H. Rose and J. M. Lutz, Bureau of Plant Industry. 15 p., illus. (T.B. 370T.) Price, 15¢.

Habits, life history, and control of the Mexican bean beetle in New Mexico. J. R. Douglass, Bureau of Entomology. 46 p. illus. (T.B. 376T.) Price, 5¢.

Commercial possibilities of Japanese mint in the United States as a source of natural menthol. A. F. Sievers and M. S. Lowman, Bureau of Plant Industry. 35 p., illus. (T.B. 378T.) Price, 5¢.

Irrigation requirements of the arid and semiarid lands of the Pacific slope basins. Samuel Fortier and Arthur A. Young, Bureau of Agricultural Engineering. 70 p. (T.B. 379T.) Price, 10¢.

Utilization and cost of power on Corn Belt farms. L. A. Reynoldson, Bureau of Agricultural Economics; W. R. Humphries, Bureau of Agricultural Engineering; S. R. Speelman and E. W. McComas, Bureau of Animal Industry; and W. H. Youngman, Bureau of Agricultural Economics. 60 p., illus. (T.B. 384T.) Price, 5¢.

Subfreezing temperatures lethal to the European corn borer infesting green ears of sweet corn. C. H. Batchelder and D. D. Questel. Bureau of Entomology. 14 p., illus. (T.B. 395T.) Price, 5¢.

Neps and similar imperfections in cotton. Norma L. Pearson, Bureau of Agricultural Economics. 19 p., illus. (T.B. 396T.) Price, 5¢.

CIRCULARS

This series carries the less technical and more informal material of the same nature as that in the Technical Bulletin series.

Methods for manufacturing acid-precipitated casein from skim milk. Charles S. Trimble and R. W. Bell, Bureau of Dairy Industry. 36 p., illus. (Cir. 279C.) Price, 5¢.

Sugarcane for sirup production. E. W. Brandes, S. F. Sherwood, and B. A. Belcher, Bureau of Plant Industry. 48 p., illus. (Cir. 284C.) Price, 10¢.

Community production and distribution of cotton planting seed in a one-variety cotton community. J. E. Hite, Bureau of Plant Industry. 16 p. (Cir. 286C.) Price, 5¢.

Burning for the control of aphids on alfalfa in the Antelope Valley of California. R. A. Blanchard, Bureau of Entomology; H. B. Walker, University of California; and O. K. Hedden, Bureau of Agricultural Engineering. 24 p., illus. (Cir. 287C.) Price, 5¢.

Observations on the European corn borer and its major parasites in the Orient. W. B. Cartwright, Bureau of Entomology. 14 p. (Cir. 289C.) Price, 5¢.

Artificial drying of rice on the farm. W. D. Smith, J. J. Deffes, and C. H. Bennett, Bureau of Agricultural Economics; W. M. Hurst and W. H. Redit, Bureau of Agricultural Engineering. 24 p., illus. (Cir. 292C.) Price, 5¢.

Practical pointers on making creamery butter in the South. Joel G. Winkjer, Bureau of Dairy Industry; F. W. Burns and A. D. Burke, Alabama Polytechnic Institute. 35 p., illus. (Cir. 294C.) Price, 5¢.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

Handbook of poultry and egg statistics. T. R. Pirtle and Rob R. Slocum. Bureau of Agricultural Economics. 105 p. (M.P. 158MP.) Price, 10¢.

The 1932 outbreak of foot-and-mouth disease in southern California. John R. Mohler and Rudolph Snyder, Bureau of Animal Industry. 11 p., illus. (M.P. 163MP.) Price, 5¢.

The agricultural outlook for 1934. Bureau of Agricultural Economics, Agricultural Adjustment Administration, Extension Service, State agricultural colleges and extension services. 110 p. (M.P. 182MP.) Price, 10¢.

SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

California, The Capistrano Area. (No. 19, series 1929.) Price, 30¢.

Michigan, Eaton County. (No. 10, series 1930.) Price, 30¢.

Nebraska, Colfax County. (No. 11, series 1930.) Price, 15¢.

North Carolina, Macon County. (No. 16, series 1929.) Price, 20¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Amendment of regulations 4 and 5 of the regulations respecting game animals, land fur-bearing animals, game birds, nongame birds, and nests and eggs of birds in Alaska. Effective January 5, 1934. 1 p. (Alaska Game Commission Circular no. 11, supp.) May be obtained from Alaska Game Commission.

Regulations governing the sanitary handling and control of hides, skins, fleshings, hide cuttings, parings, glue stock, hair, wool, and other animal by-products, and hay and straw offered for entry into the United States. Bureau of Animal Industry. 11 p. (B.A.I. Order 341. Effective February 1, 1934.) Price, 5¢.

Notices of judgment under the Food and Drugs Act. Food and Drug Administration. Pp. 89-164. (N.J., F.D. 20176-20350.)¹

Prosecutions under the interstate clause (sec. 6) of the Federal Seed Act. (July 1, 1931, to June 30, 1933, 1-14), Bureau of Plant Industry. 4 p. (S.R.A.-B.P.I.-18).¹

Amendment to pink bollworm quarantine regulations. Bureau of Plant Quarantine. Effective October 24, 1933. (B.P.Q.-Q. 25).¹

Bureau of Plant Quarantine, Service and Regulatory Announcements, April-June 1933. (S.R.A.-B.P.Q. no. 115).¹

OTHER PUBLICATIONS

Plant material introduced by the Division of Foreign Plant Introduction, Bureau of Plant Industry, January 1 to March 31, 1932 (Nos. 95552-98256). Price, 10¢.

Report of the Chief of the Bureau of Agricultural Engineering, 1933. S. H. McCrory. 22 p. Price 5¢.

Report of the Chief of the Bureau of Animal Industry, 1933. J. R. Mohler. 47 p. Price, 5¢.

Report of the Chief of the Bureau of Biological Survey, 1933. Paul G. Redington. 32 p. Price, 5¢.

Report of the Chief of the Bureau of Chemistry and Soils, 1933. Henry G. Knight. 51 p. Price, 5¢.

Report of the Chief of the Bureau of Dairy Industry, 1933. O. E. Reed. 22 p. Price, 5¢.

Report of the Chief of the Bureau of Plant Industry, 1933. William A. Taylor. 32 p. Price. 5¢.

Report of the Chief of the Bureau of Plant Quarantine, 1933. Lee A. Strong. 66 p. Price, 10¢.

Report of the Chief of the Weather Bureau, 1933. C. F. Marvin. 8 p. Price, 5¢.

Report of the Director of Personnel and Business Administration, 1933. W. W. Stockberger. 12 p. Price, 5¢.

Report of the Solicitor, 1933. Seth Thomas. 22 p. Price, 5¢.

AGRICULTURAL ADJUSTMENT ADMINISTRATION

NOTE.—The Agricultural Adjustment Administration (also known as the Emergency Agricultural Adjustment Administration and the A.A.A.) was established under the provisions of sec. 10 (a) of H.R. 3835, 73d Congress (Public 10, approved May 12, 1933), an act to relieve existing national economic emergency by increasing agricultural purchasing power, etc.

Analysis of the corn-hog situation. 18 p. (C.-H.-7).

"Progress on all fronts" under the Farm Act. George N. Peek. 9 p. (G-3).

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 17, no. 11. November 1, 1933. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.²

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

¹ These may be obtained from the issuing bureau.

² Payable to the Superintendent of Documents, Government Printing Office, Washington, D.C.

Crops and markets. Vol. 10, no. 10. October 1933. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.²

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States; 20¢ a month, \$2.40 a year.²

Experiment station record. Vol. 69, no. 5, November 1933. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.50 per volume, foreign. Single number for sale only. Price, 15¢.²

A technical review of the world's scientific literature pertaining to agriculture. Two volumes a year, of 10 numbers each; \$1.00 a volume, domestic; \$1.50 a volume, foreign.

Extension service review. Vol. 4, no. 6, October 1933. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.²

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

Journal of agricultural research. Price, \$2.25 a year domestic; \$3.50 a year foreign. Not distributed free to individuals. Each issue, price, 10¢. Reprints, 5¢ each.²

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

— Vol. 47, no. 8. Illus. October 15, 1933.

Contents:

The prevention of anemia in suckling pigs, with observations on the blood picture.

Key No. Ill.-56. T. S. Hamilton, G. E. Hunt, and W. E. Carroll.

Absorption, utilization, and recovery of nitrogen, phosphorus, and potassium by apple trees grown in cylinders and subjected to differential treatment with nutrient salts. Key No. Pa.-44. Walter Thomas.

A factor in the varietal resistance of cranberries to the false-blossom disease.

Key No. G-865. R. B. Wilcox and C. S. Beckwith.

Further studies of size and shape of plot in relation to field experiments with sugar beets. Key No. G-867. F. R. Immer and S. M. Raleigh.

Effect of excess carbon dioxide on growing mushrooms. Key No. G-868. Edmund B. Lambert.

Effect of certain environmental factors on the germination of the sporangia of *Physoderma zeae-maydis*. Key No. Fla.-10. R. K. Voorhees.

A type of laboratory silo and its use with *Crotalaria*. Key No. Fla.-11. W. M. Neal and R. B. Becker.

The vitamin C content of commercially canned sauerkraut produced under known conditions. Key No. Wis.-58. Helen T. Parsons and Carolyn Horn.

Monthly weather review. Vol. 60, 1932. Title page, table of contents, and index; vol. 61, no. 8, August 1933. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.² Not for general distribution.

Public roads. Vol. 14, no. 8, October 1933. Price, 10¢ a copy, \$1 a year, \$1.50 a year, foreign.²

Weekly weather and crop bulletin. Nos. 44-48, October 31-November 28, 1933. Price, 50¢ a year, domestic; \$1 a year, foreign.²

² Payable to the Superintendent of Documents, Government Printing Office, Washington, D.C.

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MONTHLY LIST OF PUBLICATIONS

DECEMBER 1933

Any of the publications listed herein may be purchased from the Superintendent of Documents, Government Printing Office, Washington, D.C. As his office is not connected with the Department, PLEASE SEND NO REMITTANCE to the United States Department of Agriculture.

FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Squab raising. Alfred R. Lee and Sheppard K. Haynes, Bureau of Animal Industry. 21 p., illus. (F.B. 684F., rev.) Price, 5¢.

Growing cherries east of the Rocky Mountains. H. P. Gould, Bureau of Plant Industry. 36 p., illus. (F.B. 776F., rev.) Price, 5¢.

Potato storage and storage houses. William Stuart, Bureau of Plant Industry. 22 p., illus. (F.B. 847F., rev.) Price, 5¢.

Farm and home drying of fruits and vegetables. Joseph S. Caldwell, Bureau of Plant Industry. 46 p., illus. (F.B. 984F., rev.) Price, 5¢.

Strawberry culture: Eastern United States. George M. Darrow, Bureau of Plant Industry. 37 p., illus. (F.B. 1028F., rev.) Price, 5¢.

Hog lice and hog mange: Methods of control and eradication. Marion Imes, Bureau of Animal Industry. 22 p., illus. (F.B. 1085F., rev.) Price, 5¢.

Forestry and farm income. Wilbur R. Mattoon, Forest Service. 33 p., illus. (F.B. 1117 F., rev.) Price, 5¢.

Dry farming in western South Dakota. O. R. Mathews, Bureau of Plant Industry. 14 p., illus. (F.B. 1163F., rev.) Price, 5¢.

Olive growing in the southwestern United States. C. F. Kinman, Bureau of Plant Industry. 36 p., illus. (F.B. 1249F., rev.) Price, 5¢.

Swine production. E. Z. Russell, Bureau of Animal Industry. 37 p., illus. (F.B. 1437F., rev.) Price, 5¢.

Dairy cattle breeds. Amer B. Nystrom, Bureau of Dairy Industry. 32 p., illus. (F.B. 1443F., rev.) Price, 5¢.

Farmstead water supply. George M. Warren, Bureau of Agricultural Engineering. 38 p., illus. (F.B. 1448F., rev.) Price, 5¢.

Mushroom culture for amateurs. Vera K. Charles, Bureau of Plant Industry. 17 p., illus. (F.B. 1587F., rev.) Price, 5¢.

Diseases and parasites of poultry. John S. Buckley, Hubert Bunyea, and Eloise B. Cram. Bureau of Animal Industry. 68 p., illus. (F.B. 1652F., rev.) Price, 10¢.

Reservoirs for farm use. M. R. Lewis, Bureau of Agricultural Engineering. 17 p. (F.B. 1703F.) Price, 5¢.

The treatment of American fowlbrood. Jas. I. Hambleton, Bureau of Entomology. 14 p., illus. (F.B. 1713F.) Price, 5¢.

Corn culture. Frederick D. Richey, Bureau of Plant Industry. 26 p., illus. (F.B. 1714F.) Price, 5¢.

Mole control. James Silver and A. W. Moore, Bureau of Biological Survey. 17 p., illus. (F.B. 1716F.) Price, 5¢.

LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletins except that the Leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and are limited to eight pages.

Red-clover failure in relation to anthracnose in the southern part of the Clover Belt. A. J. Pieters and E. A. Hollowell. Bureau of Plant Industry. 5 p., illus. (Leaf. 98L.) Price, 5¢.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited, as they are intended primarily for scientific workers and subject-matter specialists.

Studies of fluorine compounds for controlling the codling moth. E. J. Newcomer, Bureau of Entomology, and R. H. Carter, Bureau of Chemistry and Soils. 24 p., illus. (T.B. 373T.) Price, 5¢.

Comparison of schedule and account methods of collecting data on family living. Chase Going Woodhouse and Faith M. Williams, Bureau of Home Economics. 43 p. (T.B. 386T.) Price, 5¢.

Effects of stress conditions on the cotton plant in Arizona. C. J. King, Bureau of Plant Industry. 35 p., illus. (T.B. 392T.) Price, 5¢.

Comparison of grain rations for beef calves before and after weaning. W. H. Black, Bureau of Animal Industry, and E. A. Trowbridge, University of Missouri. 16 p. (T.B. 397T.) Price, 5¢.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Market classes and grades of pork carcasses and fresh pork cuts. W. C. Davis, B. F. McCarthy, and J. A. Burgess, Bureau of Agricultural Economics. 36 p., illus. (Cir. 288C.) Price, 10¢.

A pioneer one-variety cotton community in Collin County, Tex. R. F. Saunders, Bureau of Plant Industry. 11 p., illus. (Cir. 293C.) Price, 5¢.

Diets at four levels of nutritive content and cost. Hazel K. Stiebeling and Medora M. Ward, Bureau of Home Economics. 59 p. (Cir. 296C.) Price, 5¢.

The cyclamen mite and the broad mite and their control. Floyd F. Smith, Bureau of Entomology. 14 p., illus. (Cir. 301C.) Price, 5¢.

Windrowing qualities of Co. 281 and other varieties of sugarcane under Louisiana conditions. R. T. Balch, Bureau of Chemistry and Soils, and J. I. Lauritzen, Bureau of Plant Industry. 15 p., illus. (Cir. 304C.) Price, 5¢.

The farm real estate situation, 1932-33. B. R. Stauber, Bureau of Agricultural Economics. 68 p., illus. (Cir. 309C.) Price, 10¢.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

A dangerous neighbor for wheat, oats, barley, and rye. Bureau of Plant Industry. (M.P. 131MP., rev.) illus. (folder). Price, 5¢.

The barrier system for control of floods in mountain streams. L. M. Winsor, Bureau of Agricultural Engineering. 24 p., illus. (M.P. 165MP.) Price, 5¢.

SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

Alabama, Coosa County. (No. 18, series 1929.) Price, 20¢.

Arizona-California, Yuma-Wellton Area. (No. 20, series 1929.) Price, 35¢.

California, The Paso Robles Area. (No. 34, series 1928.) Price, 25¢.

Iowa, Guthrie County. (No. 15, series 1929.) Price, 35¢.

Nebraska, Harlan County. (No. 12, series 1930.) Price, 25¢.

Nebraska, Hitchcock County. (No. 8, series 1930.) Price, 25¢.

Wisconsin, Brown County. (No. 17, series 1929.) Price, 30¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Service and regulatory announcements, Bureau of Animal Industry. October 1933. pp. 89-99. (S.R.A.-B.A.I. 318.) Price, 5¢.

Notices of Judgment under the Food and Drugs Act. Food and Drug Administration. (N.J., F.D. 20351-20400) pp. 165-210.¹

Dutch Elm Disease Quarantine. Notice of quarantine no. 70, with regulations. Bureau of Plant Quarantine. Effective October 21, 1933. 3 p. (B.P.Q.-Q. 70.)¹

OTHER PUBLICATIONS

Economic bases for the Agricultural Adjustment Act. Mordecai Ezekiel, Economic Adviser to the Secretary of Agriculture, and Louis H. Bean, Economic Adviser, Agricultural Adjustment Administration. 67 p. Price, 10¢.

Report of the Chief of the Bureau of Agricultural Economics, 1933. Nils A. Olsen. 24 p. Price, 5¢.

Report of the Chief of the Bureau of Entomology, 1933. C. L. Marlatt. 47 p. Price, 5¢.

Report of the Chief of the Bureau of Public Roads, 1933. Thomas H. MacDonald. 46 p. Price, 5¢.

Report of the Forester, 1933. Robert Y. Stuart. 46 p. Price, 5¢.

Report of the Librarian, 1933. Claribel R. Barnett. 15 p. Price, 5¢.

Report of the Secretary of Agriculture, 1933. Henry A. Wallace. 107 p. Price, 10¢.

AGRICULTURAL ADJUSTMENT ADMINISTRATION²

NOTE.—The Agricultural Adjustment Administration was established under the provisions of sec. 10 (a) of H.R. 3835, 73d Congress (Public 10, approved May 12, 1933), an act to relieve existing national economic emergency by increasing agricultural purchasing power, etc.

C-4. Questions and answers covering 1934 and 1935 cotton acreage reduction plan. 12 p.

CH-10. What the adjustment program offers corn-hog producers. 4 p.

G-4. Dollars to farmers boom business. 7 p.

Item 3. The Agricultural Adjustment Act applied to cotton. 4 p.

T-16. Statement of policy—Flue-cured tobacco producers adjustment program. 1 p.

T-25. Flue-cured tobacco—The problem for 1934. 4 p.

T-29. Information for producers—The flue-cured tobacco adjustment program. 6 p.

T-33. The plan—Flue-cured tobacco. 3 p.

T-47. The problem for 1934—Burley tobacco. 4 p.

T-50. Information for producers—The fire-cured tobacco adjustment program. 8 p.

T-51. Information for producers—The dark air-cured tobacco adjustment program. 8 p.

T-54. The problem for 1934—Fire-cured tobacco. 4 p.

T-55. The problem for 1934—Dark air-cured tobacco. 4 p.

T-57. The Maryland tobacco adjustment program. 5 p.

W-5. A balanced harvest—What the Farm Act offers the American Wheat Grower. 12 p.

W-6. Planned production means more for your wheat. 4 p.

W-15. Handbook of organization and instructions. 73 p.

W-17. Answers to the questions you are asking on the wheat adjustment plan. 8 p.

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

¹ These may be obtained from the issuing bureau.

² These may be obtained free upon application to the Agricultural Adjustment Administration.

Agricultural situation. Vol. 17, no. 12, December 1, 1933. Price 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.³

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

Crops and markets. Vol. 10, no. 11, November 1933. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.³

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions, and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States; 20¢ a month, \$2.40 a year.³

Experiment station record. Vol. 69, no. 6, December 1933. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.50 per volume, foreign. Single number for sale only. Price, 15¢.³

A technical review of the world's scientific literature pertaining to agriculture. Two volumes a year, of 10 numbers each; \$1.00 a volume, domestic; \$1.50 a volume, foreign.

Extension service review. Vol. 4, no. 7, November 1933. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.³

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

Journal of agricultural research. Price, \$2.25 a year domestic; \$3.50 a year foreign. Not distributed free to individuals. Each issue, price 10¢; 15¢, foreign. Reprints, 5¢ each.³

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

Vol. 47, no. 9. Illus. November 1, 1933.

Contents:

Fusarium resistance in Wisconsin Hollander cabbage. Key No. G-869. Melvin E. Anderson.

Inheritance of seed color in crosses of brown-seeded and white-seeded sorghums. Key No. G-863. John B. Sieglinger.

Suberization and wound-cork formation in the sugar beet as affected by temperature and relative humidity. Key No. G-866. Ernst Artschwager and Ruth Colvin Starrett.

Leptosphaeria salvinii, the ascigerous stage of *Helminthosporium sigmoideum* and *Sclerotium oryzae*. Key No. G-870. E. C. Tullis.

Some factors involved in aphid transmission of the cucumber-mosaic virus to tobacco. Key No. G-871. Isme A. Hoggan.

Composition of eggplant fruit at different stages of maturity in relation to its preparation and use as food. Key No. G-873. C. W. Culpepper and H. H. Moon.

Logarithmic expression of timber-tree volume. Key No. F-65. Francis X. Schumacher and Francisco Dos Santos Hall.

Public roads. Vol. 14, no. 9, November 1933. Price, 10¢ a copy, \$1 a year, domestic; \$1.50 a year, foreign.³

Weekly weather and crop bulletins. Nos. 48-52, November 28-December 26, 1933. Price, 50¢ a year, domestic; \$1 a year, foreign.³

³ Payable to the Superintendent of Documents, Government Printing Office, Washington, D.C.

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